

INTERNATIONAL SEARCH REPORT

Application No
PCT/US2005/009583

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K16/28 A61K39/395 A61P35/00 A61P17/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, BIOSIS, EMBASE, WPI Data, PAJ, Sequence Search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99/60023 A (IMCLONE SYSTEMS INCORPORATED; UAB RESEARCH FOUNDATION) 25 November 1999 (1999-11-25) page 13, line 30 - page 15, line 19 page 19, line 21 - page 20, line 10	1-41
X	WO 00/69459 A (IMCLONE SYSTEMS INCORPORATED) 23 November 2000 (2000-11-23) the whole document	1-41
X	WO 02/070008 A (IMCLONE SYSTEMS INCORPORATED; ROCKWELL, PATRICIA; GOLDSTEIN, NEIL, I) 12 September 2002 (2002-09-12) the whole document	31, 32, 35
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

10 August 2005

Date of mailing of the international search report

19/08/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Irion, A

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2005/009583

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>LU D ET AL: "Simultaneous blockade of both the epidermal growth factor receptor and the insulin-like growth factor receptor signaling pathways in cancer cells with a fully human recombinant bispecific antibody"</p> <p>JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 279, no. 4, 23 January 2004 (2004-01-23), pages 2856-2865, XP002316541 ISSN: 0021-9258 the whole document</p>	36
X	<p>WO 98/50433 A (ABGENIX, INC) 12-November-1998-(1998-11-12)</p> <p>page 23, line 24 - line 28; claims 15,40; sequence 33</p>	1,8-14, 17,18, 21-37
X	<p>WO 2004/005890 A (THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA; SIEGEL, DONALD, L) 15 January 2004 (2004-01-15) page 21, line 17 - line 18; figure 29p; sequence 69</p>	1,11-14, 17,18
X	<p>WO 03/064606 A (MEDAREX, INC; DEO, YASHWANT, M; GRAZIANO, ROBERT; HUDSON, DEBRA; HOLME) 7 August 2003 (2003-08-07) claims 2,3; sequences 37,39,40,42,43</p>	1,11-14, 17,18, 21-36
X	<p>WO 02/11677 A (IMCLONE SYSTEMS INCORPORATED; TEUFEL, THOMAS) 14 February 2002 (2002-02-14) the whole document</p>	37-41
A	<p>HEITNER TARA ET AL: "Selection of cell binding and internalizing epidermal growth factor receptor antibodies from a phage display library"</p> <p>JOURNAL OF IMMUNOLOGICAL METHODS, ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM, NL, vol. 248, no. 1-2, 2001, pages 17-30, XP002252398 ISSN: 0022-1759 the whole document</p>	1-41

-/--

INTERNATIONAL SEARCH REPORT

Application No
PCT/US2005/009583

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>KREBS B ET AL: "High-throughput generation and engineering of recombinant human antibodies"</p> <p>JOURNAL OF IMMUNOLOGICAL METHODS, ELSEVIER SCIENCE PUBLISHERS B.V.,AMSTERDAM, NL, vol. 254, no. 1-2, 1 August 2001 (2001-08-01), pages 67-84, XP004245443</p> <p>ISSN: 0022-1759</p> <p>the whole document</p> <p>-----</p>	1-41

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2005/009583

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 21-41
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 21-41 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

Information on patent family members

Info

Application No

PCT/US2005/009583

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9960023	A	25-11-1999	AU 4079999 A	06-12-1999
			BR 9910511 A	20-11-2001
			CA 2332331 A1	25-11-1999
			CN 1314917 A	26-09-2001
			CZ 20004224 A3	13-02-2002
			EP 1080113 A1	07-03-2001
			JP 2002515511 T	28-05-2002
			PL 348634 A1	03-06-2002
			SK 17282000 A3	04-04-2002
			WO 9960023 A1	25-11-1999
			US 2004057950 A1	25-03-2004
			ZA 200007412 A	12-03-2002
WO 0069459	A	23-11-2000	AU 4687100 A	05-12-2000
			BG 106110 A	30-04-2002
			BR 0010524 A	28-05-2002
			CA 2373815 A1	23-11-2000
			CN 1361700 A, C	31-07-2002
			CZ 20014083 A3	14-08-2002
			EE 200100603 A	17-02-2003
			EP 1218032 A1	03-07-2002
			HU 0201480 A2	28-08-2002
			JP 2003520195 T	02-07-2003
			MX PA01011632 A	07-11-2002
			NO 20015546 A	14-01-2002
			PL 365999 A1	24-01-2005
			SK 16522001 A3	08-10-2002
			WO 0069459 A1	23-11-2000
			US 2005112120 A1	26-05-2005
			US 2002012663 A1	31-01-2002
			US 2003157104 A1	21-08-2003
			ZA 200109347 A	13-02-2003
WO 02070008	A	12-09-2002	US 2003103973 A1	05-06-2003
			BG 108214 A	30-09-2004
			BR 0207977 A	01-02-2005
			CA 2439933 A1	12-09-2002
			CZ 20032586 A3	18-08-2004
			EE 200300428 A	15-10-2004
			EP 1379276 A1	14-01-2004
			HU 0303378 A2	29-12-2003
			JP 2005506288 T	03-03-2005
			NO 20033856 A	03-11-2003
			PL 364719 A1	13-12-2004
			WO 02070008 A1	12-09-2002
			US 2003108545 A1	12-06-2003
			ZA 200307682 A	13-01-2005
WO 9850433	A	12-11-1998	US 6235883 B1	22-05-2001
			AU 7287098 A	27-11-1998
			CA 2288962 A1	12-11-1998
			EP 0979246 A2	16-02-2000
			JP 2001523973 T	27-11-2001
			US 2005100546 A1	12-05-2005
			WO 9850433 A2	12-11-1998
			US 2002173629 A1	21-11-2002
WO 2004005890	A	15-01-2004	AU 2003251791 A1	23-01-2004

INTERNATIONAL SEARCH REPORT

Information on patent family members

Application No
PCT/US2005/009583

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2004005890 A		CA 2491471 A1 EP 1539236 A2 WO 2004005890 A2	15-01-2004 15-06-2005 15-01-2004
WO 03064606 A	07-08-2003	CA 2474616 A1 EP 1519747 A2 JP 2005518789 T WO 03064606 A2	07-08-2003 06-04-2005 30-06-2005 07-08-2003
WO 0211677 A	14-02-2002	AU 9500201 A CA 2418083 A1 EP 1311291 A2 JP 2004527456 T NO 20030603 A WO 0211677 A2	18-02-2002 14-02-2002 21-05-2003 09-09-2004 09-04-2003 14-02-2002